



UNIVERSITY of
BRADFORD

Library

University of Bradford eThesis

This thesis is hosted in [Bradford Scholars](#) – The University of Bradford Open Access repository. Visit the repository for full metadata or to contact the repository team



© University of Bradford. This work is licenced for reuse under a [Creative Commons Licence](#).

MATHEMATICAL MODELLING OF APPLIED HEAT TRANSFER IN
TEMPERATURE SENSITIVE PACKAGING SYSTEMS

Chetan LAKHANPAL B.Eng (Hons.)

Submitted for the degree of MPhil

School of Engineering, Design & Technology

University of Bradford



2009

MATHEMATICAL MODELLING OF APPLIED HEAT TRANSFER IN TEMPERATURE SENSITIVE PACKAGING SYSTEMS

Design, Development and Validation of a heat transfer model using lumped system approach that predicts the performance of cold chain packaging systems under dynamically changing environmental thermal conditions.

Chetan LAKHANPAL B.Eng (Hons.)

Submitted for the degree of MPhil

School of Engineering, Design & Technology

University of Bradford



2009